Mid point and distance

Mid point. $(x, y) = \left(\dfrac{x_1 + x_2}{2}, \dfrac{y_1 + y_2}{2} \right)$

Find the coordinates of Mid-point in each pair of points on the line. Also find the distance of the two points A and B.

			Mid Point	Distance
Q.1	A (1, 2),	B (4, 5)	(____ , ____)	_____
Q.2	A (2, 5),	B (6, – 3)	(____ , ____)	_____
Q.3	A (4, 3),	B (–8, –7)	(____ , ____)	_____
Q.4	A (–3, 1),	B (6, – 3)	(____ , ____)	_____
Q.5	A (1, 3),	B (4, – 1)	(____ , ____)	_____
Q.6	A (5, 6),	B (3, – 1)	(____ , ____)	_____
Q.7	A (-2, 6),	B (-4, – 5)	(____ , ____)	_____
Q.8	A (7,- 6),	B (8, – 2)	(____ , ____)	_____
Q.9	A (-5, -8),	B (-6, – 1)	(____ , ____)	_____
Q.10	A (5, 0),	B (3, – 1)	(____ , ____)	_____

Find the co-ordinate of the point when one point the mid point known.

Q.11	A (5, 6),	Mid point (3, – 1)	B(____ , ____)
Q.12	A (2, 7),	Mid point (2, 1)	B(____ , ____)
Q.13	A (-5, 3),	Mid point (-3, 5)	B(____ , ____)
Q.14	A (5, -4),	Mid point (5, 7)	B(____ , ____)
Q.15	A (-4, -5),	Mid point (0, – 1)	B(____ , ____)

Q16- 20. For the above questions 11 to 15 find the distance of AM and BM and show that AM = BM